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Measurement and Application of Field Heterogeneity for Effective Energy Use and Waste Treatment

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Message from the Guest Editor

Field heterogeneity is the key to resolving some of the problems we face in modern human society. Utilizing a limited amount of each resource at our disposal is urgently needed, both at the society and the in-device scale, where energy and material must be distributed only where and when they are required, and wastes must be separate and sorted. Field heterogeneity offers a possibility for technological breakthrough because it involves the concentration of energy, momentum, material, etc. in either spatial or temporal meanings. All those gradients initiate special effects that cannot be achieved in a uniform and equilibrium field, resulting in effective energy use and waste treatment.

Potential topics include but are not limited to:

- Drive, separation, and sorting of materials using uneven electric, magnetic, temperature, or velocity fields;
- Compressed use of energy in temporal meaning;
- Chemical processes using a strong non-equilibrium state;
- Measurement of spatial or temporal distribution of electric, magnetic, temperature, or velocity fields.

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Message from the Editor-in-Chief

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